Serial No.: 10/064,154

AMENDMENT

Listing Of Claims:

The following claim listing, including the text of the claims, will serve to replace all prior versions of the claims in this application.

1. (Currently amended) A high volume, wall-mountable air sanitation apparatus for removing contaminants from air with high energy UV light and ozone, comprising:

a casing with an interior, a first side and a second side;

means for moving air located at the first side of the casing, the air moving across at least one target comprising a target compound, said target compound comprised of titanium dioxide, in combination with at least one selected from the group consisting of up to about 30% by weight copper and up to about 30% by weight silver; and

a secondary element located at the interior of the casing at a predetermined distance from the at least one target and constructed and arranged to at least partially surround the at least one target and the secondary element for providing a conduit between the at least one target and the secondary element through which moving air can flow; and

an elongated high energy UV light source adapted to direct UV light toward the air and the <u>at</u> least one target <u>and the secondary element</u>, whereby the UV light striking the air, and the target <u>and the secondary element</u> in the presence of water will generate at least one oxidant selected from the group consisting of hydro-peroxides, super-oxide ions and hydroxyl radicals.

2. (Canceled)

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3. (Previously presented) The apparatus of claim 1, wherein the target compound is up to about 30% by weight titanium dioxide, and further comprises a hydration compound of silica gel.

- 4. (Currently amended) The apparatus of claim 1, wherein the <u>at least one</u> target comprises a mesh at least partially located between the UV light source and the air.
- 5. (Previously presented) The apparatus of claim 1, wherein the elongated high energy UV light source emits UV light at a wavelength of approximately 185 nm to 254 nm.
- 6. (Currently amended) The apparatus of claim 4, wherein the target further comprises a secondary element located a predetermined distance from the mesh, whereby at least a portion of the UV light coming through the mesh strikes the secondary element, thereby generating an additional oxidant selected from the group consisting of hydro-peroxides, super-oxide ions and hydroxyl radicals.
- 7. (Previously presented) The apparatus of claim 6, wherein the secondary element comprises a secondary target compound comprised of titanium dioxide, in combination with at least one selected from the group consisting of up to about 30% by weight copper and up to about 30% by weight silver.
- 8. (Original) The apparatus of claim 1, wherein the means for moving air comprises a fan located in the interior of the casing.
- 9. (Previously presented) The apparatus of claim 1, further comprising at least a first_particulate filter operatively associated with the casing for removing particulates from the air before the air is moved over the target compound.

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10. (Previously presented) The apparatus of claim 8, wherein UV light may be visible from an exterior of the casing, whereby a person may observe whether the UV light source within the apparatus is operating.

- 11. (Previously presented) The apparatus of claim 1, wherein the UV light source comprises at least one low-pressure mercury UV light.
- 12. (Previously presented) The apparatus of claim 11, comprising at least one mesh target disposed to surround each low-pressure mercury UV light.
- 13. (Previously presented) The apparatus of claim 12, wherein each of the at least one mesh target may be affected by more than one UV light source.
- 14. (Canceled)
- 15. (Currently amended) The apparatus of claim [[14]] 1, wherein the air generally flows between the mesh target and the secondary target element is formed on an inside surface of the casing.
- 16. (Currently amended) The apparatus of claim [[14]] 1, wherein the secondary target element acts as a conduit for the air completely surrounds the at least one target.
- 17-22. (Canceled)